

SEQUENCE LISTING

<110> Robbins, David
 Lin-Goerke, Juili L.
 Ling, Jessica

<120> Novel Mutations in Human MLH1 and MSH2 Genes Useful in
 Diagnosing Colorectal Cancer

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aactttggac agtttgaact gactactttt gacttcagcc agtatatgaa attggatatt 120
gcagcagtca gagcccttaa cctttttcag 150

<210> 126
<211> 23
<212> DNA
<213> Homo sapiens

<400> 126
gtaaaaaaaa aaaaaaaaaa aaa 23

<210> 127
<211> 22
<212> DNA
<213> Homo sapiens

<400> 127
aaaagggta aaaatggtga tt 22

<210> 128
<211> 13
<212> DNA
<213> Homo sapiens

<400> 128
ttaaaaaatg ttt 13

<210> 129
<211> 23
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<400> 129
cattgacata tactgaagaa gct 23

<210> 130
<211> 27
<212> DNA
<213> Homo sapiens

<400> 130
tataaaggag ctaaaatatt tggaaat 27

<210> 131
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<212> DNA

<213> Homo sapiens

<400> 131

attatacttg gattagataa ctagctttaa atgggtgtat ttt 43

<210> 132

<211> 22

<212> DNA

<213> Homo sapiens

<400> 132

ttcactaatg agcttgccat tc 22

<210> 133

<211> 26

<212> DNA

<213> Homo sapiens

<400> 133

tttctatattt attttttgggt tactag 26

<210> 134

<211> 134

<212> DNA

<213> Homo sapiens

<400> 134

ggttctgttg aagataccac tggctctcag tctctgggtg ccttgctgaa taagtgtaaa 60
accctcgaag gacaaagact tgtaaccag tggattaagc agcctctcat ggataagaac 120
agaatagagg agag 134

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<211> 44

<212> DNA

<213> Homo sapiens

<400> 135

gtatgttatt agtttatact ttcgttagtt ttatgtaacc tgca 44

<210> 136

<211> 20

<212> DNA

<213> Homo sapiens

<400> 136

gttaccacaca tgattataacc 20

<210> 137
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<213> Homo sapiens

<400> 137
cttacgtgct tagttgataa 20

<210> 138
<211> 53
<212> DNA
<213> Homo sapiens

<400> 138
attttaattt tataactaaaa tattttacat taattcaagt taatttattt cag 53

<210> 139
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tttacttcgt cgattcccag atcttaaccg acttgccaag aagtttcaaa gacaagcagc 120
aaacttacaa gattgttacc gactctatca gggatataaat caactaccta atgttatata 180
ggctctggaa aaacatgaag 200

<210> 140
<211> 24
<212> DNA
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<400> 140
gtaacaagtg attttgtttt ttg 24

<210> 141
<211> 24
<212> DNA
<213> Homo sapiens

<400> 141
ttttccttca actcatacaa tata 24

<210> 142
<211> 26
<212> DNA
<213> Homo sapiens

<400> 142
 ttgtattct gtaaaatgag atcttt 26

<210> 143
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 143
 ttatttgttt gttttactac tttcttttag 30

<210> 144
 <211> 110
 <212> DNA
 <213> Homo sapiens

<400> 144
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 acttctccaa gtttcaggaa atgatagaaa caactttaga tatggatcag 110

<210> 145
 <211> 26
 <212> DNA
 <213> Homo sapiens

<400> 145
 gtatgcaata tacttttttaa tttaag 26

<210> 146
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 146
 cagtagttat ttttaaaaag caaag 25

<210> 147
 <211> 23
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 <213> Homo sapiens

<400> 147
 ctttaccocat tatattatagg att 23

<210> 148
 <211> 23
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 <213> Homo sapiens

<400> 148
 ttgtcacttt gttctgtttg cag 23

<210> 149
 <211> 124
 <212> DNA
 <213> Homo sapiens

<400> 149
 gtggaaaacc atgaattcct tgtaaaacct tcatttgatc ctaatctcag tgaattaaga 60
 gaaataatga atgacttgga aaagaagatg cagtcaacat taataagtgc agccagagat 120
 cttg 124

<210> 150
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 150
 gtaagaatgg gtcattggag 20

<210> 151
 <211> 23
 <212> DNA
 <213> Homo sapiens

<400> 151
 gttggaataa ttcttttgtc tat 23

<210> 152
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 <212> DNA
 <213> Homo sapiens

<400> 152
 tagtaggtat ttatggaata ctttt 25

<210> 153
 <211> 22
 <212> DNA
 <213> Homo sapiens

<400> 153
 tcttttcttc ttgtttatca ag 22

<210> 154
 <211> 151

<212> DNA

<213> Homo sapiens

<400> 154

gcttggaccc tggcaaacag attaaactgg attccagtgc acagtttgga tattactttc 60
gtgtaacctg taaggaagaa aaagtccttc gtaacaataa aaactttagt actgtagata 120
tccagaagaa tgggtgttaa tttaccaaca g 151

<210> 155

<211> 36

<212> DNA

<213> Homo sapiens

<400> 155

gtttgtaagt cattattata tttttaaccc tttatt 36

<210> 156

<211> 21

<212> DNA

<213> Homo sapiens

<400> 156

aattccctaa atgctctaac a 21

<210> 157

<211> 21

<212> DNA

<213> Homo sapiens

<400> 157

cattgcttct agtacacatt t 21

<210> 158

<211> 36

<212> DNA

<213> Homo sapiens

<400> 158

taatattttt aataaaaactg ttatttcgat ttgcag 36

<210> 159

<211> 98

<212> DNA

<213> Homo sapiens

<400> 159

caaattgact tctttaaatg aagagtatac caaaaataaa acagaatatg aagaagccca 60
ggatgccatt gttaaagaaa ttgtcaatat ttcttcag 98

<210> 160
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<212> DNA
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<400> 160
gtaaacttaa tagaactaa 19

<210> 161
<211> 21
<212> DNA
<213> Homo sapiens

<400> 161
taatgttctg aatgtcacct g 21

<210> 162
<211> 21
<212> DNA
<213> Homo sapiens

<400> 162
tcagtattcc tgtgtacatt t 21

<210> 163
<211> 21
<212> DNA
<213> Homo sapiens

<400> 163
tctgttttta tttttataca g 21

<210> 164
<211> 246
<212> DNA
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<400> 164
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gctttgtctca cgtgtcaaata ggagcacctg ttccatatgt acgaccagcc attttgagaga 120
aaggacaagg aagaattata ttaaaagcat ccaggcatgc ttgtgttgaa gttcaagatg 180
aaattgcatt tattcctaata gacgtatact ttgaaaaaga taaacagatg ttccacatca 240
ttactg 246

<210> 165
<211> 16
<212> DNA

<213> Homo sapiens

<400> 165

gtaaaaaacc tgggttt

16

<210> 166

<211> 19

<212> DNA

<213> Homo sapiens

<400> 166

ttgggctttg tgggggtaa

19

<210> 167

<211> 19

<212> DNA

<213> Homo sapiens

<400> 167

cgattaatca tcagtgtac

19

<210> 168

<211> 78

<212> DNA

<213> Homo sapiens

<400> 168

agtttaggac taacaatcca tttattagta gcagaaagaa gtttaaaatc ttgctttctg 60
atataatttg ttttgtag 78

<210> 169

<211> 205

<212> DNA

<213> Homo sapiens

<400> 169

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cccaaattgg gtgttttgtg ccatgtgagt cagcagaagt gtccattgtg gactgcatct 120
tagcccgagt aggggctggt gacagtcaat tgaaaggagt ctccacgttc atggctgaaa 180
tgttggaaac tgcttctatc ctcag 205

<210> 170

<211> 23

<212> DNA

<213> Homo sapiens

<400> 170

gtaagtgcac ctccatgtcc ctt

23

<210> 171
<211> 23
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<213> Homo sapiens

<400> 171
gaagatagaa atgtatgtct ctg 23

<210> 172
<211> 21
<212> DNA
<213> Homo sapiens

<400> 172
ccacatttta tgtgatggga a 21

<210> 173
<211> 24
<212> DNA
<213> Homo sapiens

<400> 173
atttcattgta attatgtgct tcag 24

<210> 174
<211> 248
<212> DNA
<213> Homo sapiens

<400> 174
gtctgcaacc aaagattcat taataatcat agatgaattg ggaagaggaa cttctaccta 60
cgatggattt gggtttagcat gggctatatc agaatacatt gcaacaaaga ttggtgcttt 120
ttgcatgttt gcaacccatt ttcattgaact tactgccttg gccaatcaga taccaactgt 180
taataatcta catgtcacag cactcaccac tgaagagacc ttaactatgc tttatcaggt 240
gaagaaag 248

<210> 175
<211> 56
<212> DNA
<213> Homo sapiens

<400> 175
gtatgtacta ttggagtact ctaaattcag aacttggttaa tgggaaactt actacc 56

<210> 176
<211> 19
<212> DNA

<213> Homo sapiens

<400> 176

cttctcatgc tgtcccctc

19

<210> 177

<211> 23

<212> DNA

<213> Homo sapiens

<400> 177

acgcttcccc aaatttctta tag

23

<210> 178

<211> 176

<212> DNA

<213> Homo sapiens

<400> 178

gtgtctgtga tcaaagtttt gggattcatg ttgcagagct tgctaatttc cctaagcatg 60
taatagagtg tgctaaacag aaagccctgg aacttgagga gtttcagtat attggagaat 120
cgcaaggata tgatatcatg gaaccagcag caaagaagtg ctatctggaa agagag 176

<210> 179

<211> 17

<212> DNA

<213> Homo sapiens

<400> 179

gtttgtcagt ttgtttt

17

<210> 180

<211> 21

<212> DNA

<213> Homo sapiens

<400> 180

catagtttaa cttagcttct c

21

<210> 181

<211> 21

<212> DNA

<213> Homo sapiens

<400> 181

attactcatg ggacattcac a

21

<210> 182

<211> 10
<212> DNA
<213> Homo sapiens

<400> 182
tgtgttttcag 10

<210> 183
<211> 171
<212> DNA
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<400> 183
caagggtgaaa aaattattca ggagttcctg tccaagggtga aacaaatgcc ctttactgaa 60
atgtcagaag aaaacatcac aataaagtta aaacagctaa aagctgaagt aatagcaaag 120
aataatagct ttgtaaatga aatcatttca cgaataaaaag ttactacgtg a 171

<210> 184
<211> 20
<212> DNA
<213> Homo sapiens

<400> 184
atcccagtaa tggaatgaag 20

<210> 185
<211> 37
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 185
tgtaaaaacga cggccagtct gaggtgattg gctgaag 37

<210> 186
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 186
ggaaacagct atgaccatgc cgtaagtcg tagccctt 38

<210> 187

<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 187
tgtaaaacga cggccagtcg attaatcatc agtgtac 37

<210> 188
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 188
ggaaacagct atgaccatgc agagacatac atttctatct tc 42

<210> 189
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 189
tgtaaaacga cggccagtcg cattttcttc aaccagga 38

<210> 190
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 190
ggaaacagct atgaccatgc ctccccagca cgcgcc 36

<210> 191
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 191

ggccattgtc acagaggata aga

23

<210> 192

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 192

acacagccca cgaaggagtg

20